

STATE HOUSE, BOSTON.

The Commonwealth of Massachusetts.

1909

ASSESSMENTS

FOR

INTEREST, SINKING FUNDS
AND MAINTENANCE

OF THE

METROPOLITAN DISTRICTS.

ISSUED BY THE
TREASURER AND RECEIVER-GENERAL.



BOSTON:
WRIGHT & POTTER PRINTING CO., STATE PRINTERS,
18 POST OFFICE SQUARE.
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YRABEL STATE
TO
ATTORNEY GENERAL

The Commonwealth of Massachusetts.

TREASURY DEPARTMENT, June 25, 1909.

Computations for the annual assessments for interest, sinking fund and maintenance for 1909 to be paid by the cities and towns comprising the metropolitan districts for the water, park and sewer systems, have been printed and are sent to each city and town, in order that the figures may be verified and the taxpayers of the districts be assured the amount levied is correct.

The total metropolitan assessments for the past five years are as follows : —

1905,	.	.	.	.	.	.	.	\$3,722,725	93
1906,	.	.	.	.	.	.	.	3,975,114	40
1907,	.	.	.	.	.	.	.	3,963,700	68
1908,	.	.	.	.	.	.	.	4,237,127	45
1909,	.	.	.	.	.	.	.	4,334,286	80

No assessment has yet been made on the metropolitan district as a whole for the Charles River basin as the work is not completed. Under authority of chapter 175 of the acts of the present year the Treasurer and Receiver-General has assessed on the cities of Boston and Cambridge, to meet interest and sinking fund requirements, the sum of \$328,606.20, divided as follows : —

Assessment to be paid by the city of Boston for interest re-	
quirements,	\$184,160 48
Sinking fund requirements,	93,099 99
Assessment to be paid by the city of Cambridge for interest	
requirements,	34,104 59
Sinking fund requirements,	17,241 14

ELMER A. STEVENS,

Treasurer and Receiver-General.

Total Assessments of the Metropolitan Districts for 1909.

	Metropolitan Water.	Metropolitan Parks and Boulevards.	Metropolitan Sewer, North and South Systems.	Total.
Arlington, .	\$17,442 46	\$5,253 27	\$9,169 53N	\$31,865 26
Belmont, .	7,461 96	3,196 03	4,927 67N	15,585 66
Boston, .	1,862,823 42	649,894 15	69,561 33N 189,305 15S	2,771,584 05
Braintree, .	—	2,694 76	—	2,694 76
Brookline, .	—	52,077 83	85,583 96S	137,661 79
Cambridge, .	—	57,458 52	92,920 56N	150,379 08
Canton, .	—	2,150 24	—	2,150 24
Chelsea, .	51,499 13	15,769 81	26,387 53N	93,656 47
Cohasset, .	—	196 30	—	196 30
Dedham, .	—	5,908 08	11,208 87S	17,116 95
Dover, .	—	584 80	—	584 80
Everett, .	44,833 29	17,345 47	22,211 69N	84,390 45
Hingham, .	—	2,549 58	—	2,549 58
Hull, .	—	2,233 25	—	2,233 25
Hyde Park, .	1,327 03	6,650 62	14,539 42S	22,517 07
Lexington, .	7,384 17	—	3,378 52N	10,762 69
Lynn, .	—	28,771 46	—	28,771 46
Malden, .	39,350 16	21,291 49	32,524 60N	93,166 25
Medford, .	36,752 69	29,895 94	18,968 48N	85,617 11
Melrose, .	24,523 38	8,058 34	13,567 95N	46,149 67
Milton, .	15,455 71	19,505 54	21,888 20S	56,849 45
Nahant, .	4,566 73	4,951 24	—	9,517 97
Needham, .	—	2,180 52	—	2,180 52
Newton, .	6,524 93	37,628 03	67,237 54S	111,390 55
Quincy, .	51,230 04	14,582 17	27,329 62S	93,141 83
Reading, .	—	458 97	—	458 97
Revere, .	23,140 55	16,234 58	11,252 34N	50,627 47
Saugus, .	—	2,171 59	—	2,171 59
Somerville, .	112,573 20	37,376 52	56,184 31N	206,134 03
Stoneham, .	10,234 41	4,235 44	4,766 06N	19,235 91
Swampscott, .	11,120 03	5,543 63	—	16,663 66
Wakefield, .	—	4,282 09	8,125 52N	12,407 61
Waltham, .	—	11,861 08	26,741 33S	38,602 41
Watertown, .	15,758 18	6,576 98	13,537 62S	35,872 78
Wellesley, .	—	6,757 49	—	6,757 49
Weston, .	—	3,561 01	—	3,561 01
Westwood, .	—	1,138 80	—	1,138 80
Weymouth, .	—	3,622 66	—	3,622 66
Winchester, .	—	9,607 86	9,453 68N	19,061 54
Winthrop, .	16,744 76	4,448 64	7,704 96N	28,898 36
Woburn, .	—	5,803 19	10,556 11N	16,359 30
	\$2,360,746 28	\$1,114,507 97	\$859,032 55	\$4,334,286 80 ¹

N, North System.

S, South System.

¹ Includes \$19,418.56 assessments for Wellington and Wellesley bridges.

STATEMENT I.

METROPOLITAN WATER DISTRICT.

Total Water Debt, May 1, 1909.

The gross metropolitan water debt, May 1, 1909, was . . . \$40,898,000 00
 an increase for the year of \$398,000.

The sinking funds established for payment of same May 1, 1909,
 amounted to 6,501,337 35
 an increase for the year of \$773,740.90.

The net metropolitan water debt, May 1, 1909, was . . . \$34,396,662 65
 a decrease for the year of \$375,740.90.

Total Metropolitan Water Assessment for 1909.

Sinking fund requirement (see page 6), \$520,331 43

Interest:—

One year on \$40,500,000, \$1,363,000 00
 Six months' on \$398,000, 6,467 50
 Interest on advances, estimated, 1909, . . . 35,000 00

\$1,404,467 50

Less interest overestimated in

1906 and 1908, . . . \$6,040 38
 accrued interest, . . . 2,976 82
 interest on deposits, . . . 46 81

9,064 01

1,395,403 49

Maintenance as appropriated by Legislature, \$446,500 00

Less balance on hand, 1,488 64

445,011 36

Total water assessment for 1909, \$2,360,746 28

METROPOLITAN WATER LOAN.

Sinking Fund.

BONDS ISSUED.	Due Date.	Sinking Fund Dec. 1, 1908.	Amount of 1908 Sinking Fund at Maturity of Loan Accumula- tions reckoned at 3 Per Cent.	Balance to be sunk.	Sinking Fund Requirements in 1909.
\$13,000,000	July, 1935,	\$3,015,120 99	\$6,637,506 73	\$6,362,493 27	\$162,091 47
4,000,000	Jan., 1938,	751,266 97	1,781,659 61	2,218,340 39	48,886 18
4,000,000	July, 1939,	599,122 21	1,485,744 01	2,514,255 99	51,877 30
10,000,000	Jan., 1941,	1,183,575 80	3,069,182 92	6,930,817 08	131,490 88
3,500,000	Jan., 1942,	382,803 36	1,022,667 65	2,477,332 35	44,795 92
2,000,000	Jan., 1943,	175,049 16	481,782 35	1,518,217 65	26,187 84
2,000,000	Jan., 1944,	146,881 20	416,475 21	1,583,524 79	26,076 37
650,000	Jan., 1945,	73,204 06	213,840 61	436,159 39	6,861 97
1,350,000	Jan., 1946,	73,783 81	222,048 67	1,127,951 33	16,966 01
398,000	Jan., 1949,	-	-	-	5,097 49
\$40,898,000	-	\$6,400,807 56	\$15,330,907 76	\$25,169,092 24	\$520,331 43

Computations for determining the Assessment for 1909. (See Chapter 488, Acts of 1895, as amended in 1901, 1904 and 1906.)

[The proportion to be paid by each city and town is based on the ratio of its valuation of property to its consumption of water, with double weight being given to consumption. The last column shows the total ratio to be paid by each city and town of the whole assessment. To find each town's assessment, multiply the total assessment by the average ratio.]

CITIES AND TOWNS.	Valuation May 1, 1908.	Average Daily Con- sumption (Gallons), 1908.	RATIO OF TOTALS.		Average Ratio, Double Weight to Consumption.
			Valuation.	Consumption.	
Boston, .	\$1,327,662,338	98,379,300	.798,502,185	.784,372,553	.789,082,430
Chelsea, .	20,872,400	3,316,900	.012,553,385	.026,445,455	.021,814,765
Everett, .	24,832,800	2,636,300	.014,935,307	.021,019,070	.018,991,149
Malden, .	33,601,500	1,868,600	.020,209,108	.014,898,241	.016,668,530
Medford, .	22,800,000	2,069,000	.013,712,711	.016,496,019	.015,568,250
Melrose, .	15,972,960	1,351,900	.009,606,692	.010,778,622	.010,387,979
Newton, ¹ .	13,786,760	-	.008,291,836	-	.002,763,945
Quincy, .	28,610,390	3,003,600	.017,207,282	.023,947,532	.021,700,782
Somerville, .	63,158,400	6,589,200	.037,985,653	.052,535,316	.047,685,428
Arlington, .	11,105,046	971,200	.006,678,960	.007,743,322	.007,388,535
Belmont, .	6,078,650	365,400	.003,655,911	.002,913,314	.003,160,846
Hyde Park, ¹ .	2,803,935	-	.001,686,384	-	.000,562,128
Lexington, .	6,884,670	328,800	.004,140,679	.002,621,504	.003,127,896
Milton, .	23,864,970	331,600	.014,353,220	.002,643,828	.006,546,959
Nahant, .	5,934,687	140,100	.003,569,327	.001,117,009	.001,934,448
Revere, .	15,055,550	1,276,300	.009,054,930	.010,175,867	.009,802,221
Stoneham, .	5,027,334	626,000	.003,023,613	.004,991,062	.004,335,246
Swampscott, .	9,992,655	509,300	.006,009,929	.004,060,620	.004,710,390
Watertown, .	13,888,216	732,000	.008,352,855	.005,836,194	.006,675,081
Winthrop, .	10,757,665	928,700	.006,470,033	.007,404,472	.007,092,992
	\$1,662,690,926	125,424,200	1,000,000,000	1,000,000,000	1,000,000,000

¹ In accordance with the provisions of the act above referred to, but one-fifth of the total valuation and no consumption has been taken, for at present these towns have a sufficient supply, and have not made application for water.

METROPOLITAN WATER LOAN.

Division of the Assessment for 1909 into Cost of Maintenance, Interest and Sinking Fund Requirements.

CITIES AND TOWNS.	Interest.	Sinking Fund.	Cost of Maintenance.	Total Assessment.
Boston, . .	\$1,101,088 38	\$410,584 39	\$351,150 65	\$1,862,823 42
Chelsea, . .	30,440 40	11,350 91	9,707 82	51,499 13
Everett, . .	26,500 32	9,881 69	8,451 28	44,833 29
Malden, . .	23,259 32	8,673 16	7,417 68	39,350 16
Medford, . .	21,723 99	8,100 65	6,928 05	36,752 69
Melrose, . .	14,495 42	5,405 19	4,622 77	24,523 38
Newton, . .	3,856 82	1,438 17	1,229 99	6,524 98
Quincy, . .	30,281 35	11,291 60	9,657 09	51,230 04
Somerville, . .	66,540 41	24,812 23	21,220 56	112,573 20
Arlington, . .	10,309 99	3,844 49	3,287 98	17,442 46
Belmont, . .	4,410 66	1,644 69	1,406 61	7,461 96
Hyde Park, . .	784 39	292 49	250 15	1,327 03
Lexington, . .	4,364 68	1,627 54	1,391 95	7,384 17
Milton, . .	9,135 65	3,406 59	2,913 47	15,455 71
Nahant, . .	2,699 33	1,006 55	860 85	4,566 73
Revere, . .	13,678 05	5,100 40	4,362 10	23,140 55
Stoneham, . .	6,049 42	2,255 76	1,929 23	10,234 41
Swampscott, . .	6,572 89	2,450 96	2,096 18	11,120 03
Watertown, . .	9,314 43	3,473 26	2,970 49	15,758 18
Winthrop, . .	9,897 59	3,690 71	3,156 46	16,744 76
	\$1,395,403 49	\$520,331 43	\$445,011 36	\$2,360,746 28

Comparison of Total Assessments, 1908 and 1909, with Revenue from Water Rates in 1908.

CITIES AND TOWNS.	WATER ASSESSMENT.		Water Revenue received by Cities and Towns, 1908.
	1908.	1909.	
Boston,	\$1,789,315 84	\$1,862,823 42	\$2,695,761 00 ¹
Chelsea,	58,288 06	51,499 13	135,595 23
Everett,	42,428 56	44,833 29	98,633 60 ²
Malden,	38,049 53	39,350 16	99,537 30 ¹
Medford,	36,955 49	36,752 69	71,450 63 ³
Melrose,	28,693 90	24,523 38	57,115 50 ¹
Newton,	6,259 58	6,524 98	- ⁴
Quincy,	49,285 01	51,230 04	108,611 56 ¹
Somerville,	108,691 08	112,573 20	230,254 72 ¹
Arlington,	16,552 50	17,442 46	48,425 99
Belmont,	6,832 38	7,461 96	19,910 42 ²
Hyde Park,	1,261 26	1,327 03	- ⁴
Lexington,	6,845 05	7,384 17	22,503 45
Milton,	14,713 89	15,455 71	43,955 74
Nahant,	4,282 55	4,566 73	11,764 64
Revere,	21,842 32	23,140 55	59,838 15 ³
Stoneham,	9,727 88	10,234 41	23,418 61 ²
Swampscott,	-	11,120 03	29,839 82
Watertown,	15,639 86	15,758 18	53,738 87 ²
Winthrop,	15,486 79	16,744 76	47,488 71
	\$2,271,151 53	\$2,360,746 28	\$3,857,843 94

¹ No money received for hydrant rentals or water used for street watering and other municipal purposes.

² No money received for hydrant rentals or water used for street watering.

³ No money received for hydrant rentals.

⁴ Not taking water from the district.

Net Water Debt of Cities of the Original Metropolitan Water District.

CITIES.	1908.	1909.	Change of Past Year (Reduction).
Boston,	\$736,720 63	\$611,543 29	\$125,177 34
Somerville,	69,000 00	62,000 00	7,000 00
Chelsea,	183,784 00	168,802 00	14,982 00
Everett,	100,985 42	94,881 35	6,104 07
Malden,	109,214 63	92,296 45	16,918 18
Medford,	23,891 49 ¹	7,837 31 ¹	16,054 18 ²
Melrose,	34,641 37	79,143 98	44,502 61 ²
	\$1,210,454 56	\$1,100,829 76	\$109,624 80

¹ Amount in sinking fund \$7,837.31 greater than outstanding debt.

² Increase.

STATEMENT II.

METROPOLITAN PARKS DISTRICT.

The gross metropolitan parks debt, May 1, 1909, was . . .	\$9,485,000 00
an increase for the year of \$70,000.	
The sinking funds established for payment of same, May 1, 1909, amounted to	1,686,468 62
an increase for the year of \$187,468.20.	
The net metropolitan parks debt, May 1, 1909, was	\$7,798,531 38
a decrease for the year of \$117,468.20.	

BOULEVARDS.

The gross metropolitan parks, series two, debt (boulevards) (one-half), May 1, 1909, was	\$2,567,500 00
an increase for the year of \$25,000.	
The sinking funds established for payment of same, May 1, 1909, amounted to	405,010 48
an increase for the year of \$46,223.82.	
The net metropolitan parks, series two (boulevards), debt, May 1, 1909, was	\$2,162,489 52
a decrease for the year of \$21,223.82.	

METROPOLITAN PARKS LOAN.

The total parks assessment for 1909 is made up as follows : —			
Parks, sinking fund,	\$110,722 50		
Parks, series two, sinking fund,	30,536 00		
Nantasket, sinking fund,	7,934 25		
			\$149,192 75
Parks interest : —			
One year on \$8,715,000 =	\$298,950 00		
Six months on 70,000 =	1,137 50		
	\$300,087 50		
Interest on advances, estimated,			
1909,	4,000 00		
Interest on advances, deficiency, 1908,	2,141 12		
	\$306,228 62		
Accrued interest,	523 55		
	\$305,705 07		
Parks, series two, interest : —			
One year on \$2,542,500 =	\$86,925 00		
Six months on 25,000 =	406 25		
	\$87,331 25		
<i>Amounts carried forward,</i>	\$305,705 07		\$149,192 75

<i>Amounts brought forward,</i>			\$305,705 07	\$149,192 75
Less				
Interest on deposits,	\$3,432 13			
Over collected in				
1906,	173 74			
Accrued interest, .	186 97			
	<u> </u>	\$3,792 84		
			83,538 41	
Nantasket interest: —				
One year on		\$700,000	= 21,000 00	
			<u> </u>	410,243 48
Parks maintenance,	\$369,584 96			
Expense of commission, . . .	3,000 00			
Expense of joint commission, .	10,000 00			
Band concerts,	25,000 00			
	<u> </u>	\$407,584 96		
To which is to be added 1908 bills paid in 1909,	\$15,955 06			
Less book balance,	5,052 43			
	<u> </u>	10,902 63		
			\$418,487 59	
Parks, series two, maintenance (one-half),	\$87,076 58			
To which is to be added 1908 bills paid in 1909 (one-half),	\$5,467 84			
Less book balance (one-half),	3,564 18			
	<u> </u>	\$1,903 66		
Deficiency, 1908,	117 50			
	<u> </u>	2,021 16		
			89,097 74	
Nantasket maintenance,	\$22,500 00			
To which is to be added over-draft, \$1,266 49				
Bills of 1908, paid in 1909,	933 67			
	<u> </u>	2,200 16		
			<u> </u>	24,700 16
				532,285 49
Wellington Bridge maintenance (one-half),		\$3,376 00		
From which is to be deducted: —				
Book balance (one-half),	\$287 96			
Less 1908 bills paid in 1909 (one-half),	279 65			
	<u> </u>		8 31	
			<u> </u>	3,367 69
Total parks assessment for 1909,				\$1,095,089 41

METROPOLITAN PARKS, INCLUDING BOULEVARDS AND NANTASKET.

Total Assessments and Grand Total.

	Total Sinking Fund.	Total Interest.	Total Maintenance.	Grand Total.
Boston, . . .	\$88,095 51	\$242,309 35	\$319,489 29	\$649,894 15
Cambridge, . . .	7,803 72	21,462 10	28,192 70	57,458 52
Chelsea, . . .	2,184 94	6,002 63	7,582 24	15,769 81
Everett, . . .	2,447 31	6,716 93	8,181 23	17,345 47
Lynn, . . .	3,903 51	10,736 19	14,131 76	28,771 46
Malden, . . .	2,809 99	7,721 18	9,817 37	20,348 54
Medford, . . .	3,016 19	8,274 15	9,885 24	21,175 58
Melrose, . . .	1,092 30	3,004 38	3,961 66	8,058 34
Newton, . . .	4,924 11	13,543 90	17,858 14	36,326 15
Quincy, . . .	2,012 30	5,529 51	7,040 36	14,582 17
Somerville, . . .	4,314 08	11,862 20	15,463 16	31,639 44
Waltham, . . .	1,607 80	4,422 28	5,831 00	11,861 08
Woburn, . . .	786 61	2,163 58	2,853 00	5,803 19
Arlington, . . .	712 11	1,958 69	2,582 47	5,253 27
Belmont, . . .	433 24	1,191 65	1,571 14	3,196 03
Braintree, . . .	365 29	1,004 75	1,324 72	2,694 76
Brookline, . . .	7,059 22	19,416 61	25,602 00	52,077 83
Canton, . . .	291 47	801 66	1,057 11	2,150 24
Cohasset, . . .	29 04	76 86	90 40	196 30
Dedham, . . .	800 83	2,202 72	2,904 53	5,908 08
Dover, . . .	79 26	218 05	287 49	584 80
Hingham, . . .	345 63	950 66	1,253 29	2,549 58
Hull, . . .	302 71	832 60	1,097 94	2,233 25
Hyde Park, . . .	906 42	2,492 42	3,251 78	6,650 62
Milton, . . .	2,740 72	7,523 83	9,240 99	19,505 54
Nahant, . . .	687 50	1,888 54	2,375 20	4,951 24
Needham, . . .	295 55	812 92	1,072 05	2,180 52
Revere, . . .	2,350 25	6,441 87	7,442 46	16,234 58
Saugus, . . .	294 36	809 66	1,067 57	2,171 59
Stoneham, . . .	356 34	980 14	1,292 58	2,629 06
Swampscott, . . .	751 44	2,066 86	2,725 33	5,543 63
Wakefield, . . .	580 46	1,596 58	2,105 05	4,282 09
Watertown, . . .	891 51	2,452 12	3,233 35	6,576 98
Wellesley, . . .	827 74	2,276 71	3,002 10	6,106 55
Weston, . . .	482 71	1,327 71	1,750 59	3,561 01
Westwood, . . .	154 38	424 61	559 81	1,138 80
Weymouth, . . .	491 05	1,350 66	1,780 95	3,622 66
Winchester, . . .	1,362 12	3,737 56	4,508 18	9,607 86
Winthrop, . . .	603 03	1,658 66	2,186 95	4,448 64
	\$149,192 75	\$410,243 48	\$535,653 18	\$1,095,089 41 ¹

¹ Exclusive of \$19,418.56, special assessment for Wellington and Wellesley bridges, which is included on page 4.

METROPOLITAN PARKS.

The total amount of bonds issued for the metropolitan parks is \$14,757,500, including one-half of those for the boulevards, also called series two, those for the improvement of the Charles River basin, \$185,-317.42 for Wellington bridge and \$16,000 for Newton and Wellesley bridge.

Proportions to be paid annually as found by Commissioners.

	Parks. 1905-1909.	Boulevard. 1905-1909.	Nantasket. 1905-1909.
Boston, . . . . .	.62237	.46716	.62009
Cambridge, . . . . .	.05405	.04558	.05386
Chelsea, . . . . .	.01203	.02482	.01198
Everett, . . . . .	.01037	.03986	.01033
Lynn, . . . . .	.02733	.02166	.02723
Malden, . . . . .	.01613	.02936	.01607
Medford, . . . . .	.01081	.05678	.01077
Melrose, . . . . .	.00772	.00578	.00769
Newton, . . . . .	.03479	.02610	.03467
Quincy, . . . . .	.01165	.02064	.01161
Somerville, . . . . .	.02866	.02994	.02855
Waltham, . . . . .	.01136	.00852	.01132
Woburn, . . . . .	.00556	.00416	.00554
Arlington, . . . . .	.00503	.00378	.00501
Belmont, . . . . .	.00306	.00230	.00305
Braintree, . . . . .	.00258	.00194	.00257
Brookline, . . . . .	.04988	.03740	.04970
Canton, . . . . .	.00206	.00154	.00206
Cohasset,	—	—	.00366
Dedham, . . . . .	.00566	.00424	.00563
Dover, . . . . .	.00056	.00042	.00056
Hingham, . . . . .	.00244	.00184	.00243
Hull, . . . . .	.00214	.00160	.00213
Hyde Park, . . . . .	.00605	.00618	.00603
Milton, . . . . .	.01240	.04158	.01236
Nahant, . . . . .	.00368	.00822	.00366
Needham, . . . . .	.00209	.00156	.00208
Revere, . . . . .	.00583	.05432	.00580
Saugus, . . . . .	.00208	.00156	.00207
Stoneham, . . . . .	.00252	.00188	.00251
Swampscott, . . . . .	.00531	.00398	.00529
Wakefield, . . . . .	.00410	.00308	.00409
Watertown, . . . . .	.00630	.00472	.00628
Wellesley, . . . . .	.00585	.00438	.00583
Weston, . . . . .	.00341	.00256	.00340
Westwood, . . . . .	.00109	.00082	.00109
Weymouth, . . . . .	.00347	.00260	.00346
Winchester, . . . . .	.00532	.02394	.00530
Winthrop, . . . . .	.00426	.00320	.00424
	1.00000	1.00000	1.00000

METROPOLITAN PARKS LOAN.

Sinking Fund.

BONDS ISSUED.	Due Dates.	Sinking Fund Dec. 1, 1908.	Amount of Dec. 1, 1908, Sinking Fund at Maturity of Loan Accumu- lations reckoned at 3 Per Cent.	Balance to be provided for.	Sinking Fund Requirements for 1909.
\$1,300,000	Jan., 1934, .	\$299,647 16	\$630,829 90	\$669,170 10	\$18,299 76
2,000,000	Jan., 1936, .	421,384 91	941,554 04	1,058,445 96	25,916 09
1,400,000	Jan., 1937, .	282,284 92	649,809 46	750,190 54	17,415 64
1,000,000	July, 1938, .	192,477 18	464,455 49	535,544 51	11,598 96
505,000	July, 1939, .	91,547 69	227,585 36	277,414 64	5,709 91
650,000	Jan., 1941, .	128,495 45	333,207 25	224,134 04	4,252 26
125,000	Jan., 1943, .	12,811 64	35,261 07	89,738 93	1,547 92
340,000	July, 1943, .	33,346 83	95,385 57	230,614 43	3,909 86
300,000	Jan., 1944, .	23,670 10	67,115 53	232,884 47	3,834 98
370,000	Jan., 1945, .	20,703 43	60,477 98	309,522 02	4,869 62
300,000	Jan., 1946, .	17,660 77	53,149 20	246,850 80	3,712 99
300,000	Jan., 1947, .	9,632 40	29,864 39	270,135 61	3,887 27
125,000	Jan., 1928, .	1,750 00	3,081 39	121,918 61	4,843 59
70,000	Jan., 1949, .	—	—	—	923 65
\$8,785,000	—	\$1,535,412 48	\$3,589,776 63	\$5,016,564 66	\$110,722 50

Nantasket.

\$600,000	July, 1939, .	\$110,650 53	\$275,074 55	\$324,925 45	\$6,687 79
100,000	Jan., 1941, .	13,227 14	34,299 88	65,700 12	1,246 46
\$700,000	—	\$123,877 67	\$309,374 43	\$390,625 57	\$7,934 25

METROPOLITAN PARKS LOAN, SERIES TWO.

Sinking Fund.

DATE.	Amount.	Present Con- dition of Sinking Fund.	Amount of Sinking Fund at Maturity of Loan.	Balance to be sunk.	Require- ments in 1909.
Jan., 1934, .	\$250,000 00	\$61,995 04	\$130,840 86	\$119,159 14	\$3,203 00
Jan., 1936, .	300,000 00	68,025 75	152,378 60	147,621 40	3,553 00
Jan., 1937, .	500,000 00	108,514 92	250,421 83	249,578 17	5,695 00
July, 1938, .	50,000 00	10,360 32	24,999 88	25,000 12	523 00
July, 1939, .	250,000 00	49,642 86	123,410 96	126,589 04	2,516 00
July, 1940, .	162,500 00	27,473 77	70,363 47	92,136 53	1,744 00
Jan., 1940, .	225,000 00	27,732 75	69,979 67	155,020 33	3,036 00
Jan., 1943, .	55,000 00	5,957 61	16,437 93	38,562 07	651 00
July, 1943, .	150,000 00	12,786 20	35,806 90	114,193 10	1,876 00
Jan., 1944, .	150,000 00	12,336 29	35,066 45	114,933 55	1,861 00
Jan., 1945, .	150,000 00	8,532 84	24,988 08	125,011 92	1,933 00
Jan., 1946, .	150,000 00	4,119 31	12,427 84	137,572 16	2,034 00
Jan., 1947, .	150,000 00	4,807 58	14,942 73	135,057 27	1,911 00
	\$2,542,500 00	\$402,285 24	\$962,065 20	\$1,580,434 80	\$30,536 00

METROPOLITAN PARKS LOAN (INCLUDING BOULEVARD AND NANTASKET).

Sinking Fund Requirements.

CITIES AND TOWNS.	Parks.	Boulevard.	Nantasket.	Total.
Boston, . . .	\$68,910 36	\$14,265 20	\$4,919 95	\$88,095 51
Cambridge, . . .	5,984 55	1,391 83	427 34	7,803 72
Chelsea, . . .	1,331 99	757 90	95 05	2,184 94
Everett, . . .	1,148 19	1,217 16	81 96	2,447 31
Lynn, . . .	3,026 05	661 41	216 05	3,903 51
Malden, . . .	1,785 95	896 54	127 50	2,809 99
Medford, . . .	1,196 91	1,733 83	85 45	3,016 19
Melrose, . . .	854 78	176 50	61 02	1,092 30
Newton, . . .	3,852 04	796 99	275 08	4,924 11
Quincy, . . .	1,289 92	630 26	92 12	2,012 30
Somerville, . . .	3,173 31	914 25	226 52	4,314 08
Waltham, . . .	1,257 81	260 17	89 82	1,607 80
Woburn, . . .	615 62	127 03	43 96	786 61
Arlington, . . .	556 93	115 43	39 75	712 11
Belmont, . . .	338 81	70 23	24 20	433 24
Braintree, . . .	285 66	59 24	20 39	365 29
Brookline, . . .	5,522 84	1,142 05	394 33	7,059 22
Canton, . . .	228 09	47 03	16 35	291 47
Cohasset, . . .	—	—	29 04	29 04
Dedham, . . .	626 69	129 47	44 67	800 83
Dover, . . .	62 00	12 82	4 44	79 26
Hingham, . . .	270 16	56 19	19 28	345 63
Hull, . . .	236 95	48 86	16 90	302 71
Hyde Park, . . .	669 87	188 71	47 84	906 42
Milton, . . .	1,372 96	1,269 69	98 07	2,740 72
Nahant, . . .	407 46	251 00	29 04	687 50
Needham, . . .	231 41	47 64	16 50	295 55
Revere, . . .	645 51	1,658 72	46 02	2,350 25
Saugus, . . .	230 30	47 64	16 42	294 36
Stoneham, . . .	279 02	57 41	19 91	356 34
Swampscott, . . .	587 94	121 53	41 97	751 44
Wakefield, . . .	453 96	94 05	32 45	580 46
Watertown, . . .	697 55	144 13	49 83	891 51
Wellesley, . . .	647 73	133 75	46 26	827 74
Weston, . . .	377 56	78 17	26 98	482 71
Westwood, . . .	120 69	25 04	8 65	154 38
Weymouth, . . .	384 21	79 39	27 45	491 05
Winchester, . . .	589 04	731 03	42 05	1,362 12
Winthrop, . . .	471 68	97 71	33 64	603 03
	\$110,722 50	\$30,536 00	\$7,934 25	\$149,192 75

METROPOLITAN PARKS LOAN (INCLUDING BOULEVARD AND NANTASKET).

Interest Requirements.

CITIES AND TOWNS.	Parks.	Boulevard.	Nantasket.	Total.
Boston, . . .	\$190,261 66	\$39,025 80	\$13,021 89	\$242,309 35
Cambridge, . . .	16,523 36	3,807 68	1,131 06	21,462 10
Chelsea, . . .	3,677 63	2,073 42	251 58	6,002 63
Everett, . . .	3,170 16	3,329 84	216 93	6,716 93
Lynn, . . .	8,354 92	1,809 44	571 83	10,736 19
Malden, . . .	4,931 02	2,452 69	337 47	7,721 18
Medford, . . .	3,304 67	4,743 31	226 17	8,274 15
Melrose, . . .	2,360 04	482 85	161 49	3,004 38
Newton, . . .	10,635 48	2,180 35	728 07	13,543 90
Quincy, . . .	3,561 47	1,724 23	243 81	5,529 51
Somerville, . . .	8,761 51	2,501 14	599 55	11,862 20
Waltham, . . .	3,472 81	711 75	237 72	4,422 28
Woburn, . . .	1,699 72	347 52	116 34	2,163 58
Arlington, . . .	1,537 70	315 78	105 21	1,958 69
Belmont, . . .	935 46	192 14	64 05	1,191 65
Braintree, . . .	788 72	162 06	53 97	1,004 75
Brookline, . . .	15,248 57	3,124 34	1,043 70	19,416 61
Canton, . . .	629 75	128 65	43 26	801 66
Cohasset, . . .	—	—	76 86	76 86
Dedham, . . .	1,730 29	354 20	118 23	2,202 72
Dover, . . .	171 20	35 09	11 76	218 05
Hingham, . . .	745 92	153 71	51 03	950 66
Hull, . . .	654 21	133 66	44 73	832 60
Hyde Park, . . .	1,849 52	516 27	126 63	2,492 42
Milton, . . .	3,790 74	3,473 53	259 56	7,523 83
Nahant, . . .	1,124 99	686 69	76 86	1,888 54
Needham, . . .	638 92	130 32	43 68	812 92
Revere, . . .	1,782 26	4,537 81	121 80	6,441 87
Saugus, . . .	635 87	130 32	43 47	809 66
Stoneham, . . .	770 38	157 05	52 71	980 14
Swampscott, . . .	1,623 29	332 48	111 09	2,066 86
Wakefield, . . .	1,253 39	257 30	85 89	1,596 58
Watertown, . . .	1,925 94	394 30	131 88	2,452 12
Wellesley, . . .	1,788 38	365 90	122 43	2,276 71
Weston, . . .	1,042 45	213 86	71 40	1,327 71
Westwood, . . .	333 22	68 50	22 89	424 61
Weymouth, . . .	1,060 80	217 20	72 66	1,350 66
Winchester, . . .	1,626 35	1,999 91	111 30	3,737 56
Winthrop, . . .	1,302 30	267 32	89 04	1,658 66
	\$305,705 07	\$83,538 41	\$21,000 00	\$410,243 48

METROPOLITAN PARKS LOAN (INCLUDING BOULEVARD AND NANTASKET).

Maintenance Requirements.

CITIES AND TOWNS.	Parks.	Boulevard.	Nantasket.	Total.
Boston, . . .	\$262,550 07	\$41,622 90	\$15,316 32	\$319,489 29
Cambridge, . . .	22,801 28	4,061 07	1,330 35	28,192 70
Chelsea, . . .	5,074 92	2,211 41	295 91	7,582 24
Everett, . . .	4,374 64	3,551 44	255 15	8,181 23
Lynn, . . .	11,529 31	1,929 86	672 59	14,131 76
Malden, . . .	6,804 53	2,615 91	396 93	9,817 37
Medford, . . .	4,560 25	5,058 97	266 02	9,885 24
Melrose, . . .	3,256 73	514 99	189 94	3,961 66
Newton, . . .	14,676 34	2,325 45	856 35	17,858 14
Quincy, . . .	4,914 61	1,838 98	286 77	7,040 36
Somerville, . . .	12,090 38	2,667 59	705 19	15,463 16
Waltham, . . .	4,792 28	759 11	279 61	5,831 00
Woburn, . . .	2,345 51	370 65	136 84	2,853 00
Arlington, . . .	2,121 93	336 79	123 75	2,582 47
Belmont, . . .	1,290 88	204 92	75 34	1,571 14
Braintree, . . .	1,088 39	172 85	63 48	1,324 72
Brookline, . . .	21,042 14	3,332 26	1,227 60	25,602 00
Canton, . . .	869 02	137 21	50 88	1,057 11
Cohasset, . . .	—	—	90 40	90 40
Dedham, . . .	2,387 70	377 77	139 06	2,904 53
Dover, . . .	236 24	37 42	13 83	287 49
Hingham, . . .	1,029 33	163 94	60 02	1,253 29
Hull, . . .	902 77	142 56	52 61	1,097 94
Hyde Park, . . .	2,552 22	550 62	148 94	3,251 78
Milton, . . .	5,231 01	3,704 69	305 29	9,240 99
Nahant, . . .	1,552 42	732 38	90 40	2,375 20
Needham, . . .	881 68	138 99	51 38	1,072 05
Revere, . . .	2,459 41	4,839 79	143 26	7,442 46
Saugus, . . .	877 45	138 99	51 13	1,067 57
Stoneham, . . .	1,063 08	167 50	62 00	1,292 58
Swampscott, . . .	2,240 05	354 61	130 67	2,725 33
Wakefield, . . .	1,729 61	274 42	101 02	2,105 05
Watertown, . . .	2,657 69	420 54	155 12	3,233 35
Wellesley, . . .	2,467 85	390 25	144 00	3,002 10
Weston, . . .	1,438 52	228 09	83 98	1,750 59
Westwood, . . .	459 82	73 06	26 93	559 81
Weymouth, . . .	1,463 84	231 65	85 46	1,780 95
Winchester, . . .	2,244 27	2,133 00	130 91	4,508 18
Winthrop, . . .	1,797 11	285 11	104 73	2,186 95
	\$421,855 28 ¹	\$89,097 74	\$24,700 16	\$535,653 18

¹ Includes \$3,367.69, the district's proportion of Wellington bridge maintenance. See page 10.

Wellington Bridge, Special Assessment (Chapter 491, Acts of 1901).

[One-fifth of one-half of the cost of the bridge due each year for five years.]

First Assessment, 1906.

	Per Cent.	Assessment.	Interest.	Maintenance.	Total Assessment.
Malden, ¹ . . .	14	—	—	\$942 95	\$942 95
Medford, . . .	19	\$7,042 06	\$398 58	1,279 72	8,720 36
Reading, . . .	1	370 64	20 98	67 35	458 97
Somerville, . .	12½	4,632 94	262 22	841 92	5,737 08
Stoneham, . . .	3½	1,297 22	73 42	235 74	1,606 38
		\$13,342 86	\$755 20	\$3,367 68	\$17,465 74

¹ Paid the whole original assessment in 1906.*Newton and Wellesley Bridge (Chapter 391, Acts of 1903).*

	Assessment.	Interest.	Total.
Newton,	\$1,200 00	\$101 88	\$1,301 88
Wellesley,	600 00	50 94	650 94
Middlesex County, . . .	500 00	42 45	542 45
Norfolk County,	500 00	42 45	542 45
Boston & Worcester Street Railway,	400 00	33 96	433 96
	\$3,200 00	\$271 68	\$3,471 68

CHARLES RIVER BASIN.

Chapter 465, Acts of 1903, authorized the building of a dam across Charles River by a special commission, and the payment therefor by a special loan by the Commonwealth, to be apportioned, assessed and repaid in the manner provided for the park loan.

DATE OF SALE.	Bonds issued.	Rate of Interest (Per Cent.).	Price received.	Due Date.
Jan. 15, 1904,	\$250,000	3½	104.600	Jan. 1, 1944.
Mar. 24, 1905,	80,000	3½	106.175	Jan. 1, 1945.
Mar. 24, 1905,	320,000	3½	105.553	Jan. 1, 1945.
June 28, 1906,	600,000	3½	103.090	Jan. 1, 1946.
April 3, 1907,	1,150,000	3½	101.850	Jan. 1, 1947.
April 7, 1908,	400,000	3½	101.400	Jan. 1, 1948.
Mar. 17, 1909,	425,000	3	101.196	Jan. 1, 1949.
Mar. 17, 1909,	425,000	3½	101.196	Jan. 1, 1949.

STATEMENT III.

METROPOLITAN SEWERAGE DISTRICT.

Debt, North System.

The gross metropolitan sewerage, north system, debt, May 1, 1909, was	\$6,450,000 00
an increase for the year of \$300,000.	
The sinking fund established for payment of same, May 1, 1909, amounted to	994,180 98
an increase for the year of \$103,025.63.	
The net metropolitan sewerage, north system, debt, May 1, 1909, was	<u>\$5,455,819 02</u>
an increase for the year of \$196,974.37.	

Assessments, North System.

Sinking fund,	\$57,121 81
One year's interest on \$6,150,000,	\$188,750 00
Six months' interest on \$300,000,	4,875 00
Interest on advances, estimated, 1909,	4,000 00
Deficiency in advances, 1908,	2,669 56
	<u>\$200,294 56</u>
Accrued interest,	667 81
	<u>199,626 75</u>
Maintenance,	\$146,900 00
Less balance on hand,	1,987 72
	<u>144,912 28</u>
Total north metropolitan sewerage assessment,	<u>\$401,660 84</u>

STATEMENT IV.

METROPOLITAN SEWERAGE DISTRICT.

Debt, South System.

The gross metropolitan sewerage, south system, debt, May 1, 1909, was	\$8,877,912 00
showing no increase for the past year.	
The sinking funds established for payment of same, May 1, 1909, amounted to	518,465 51
an increase for the year of \$77,228.26.	
The net metropolitan sewerage, south system, debt, May 1, 1909, was	<u>\$8,359,446 49</u>
a decrease for the year of \$77,228 26.	

Assessments, South System.

Sinking fund,	\$57,091 01
One year's interest on \$8,877,912,	\$298,777 30
Interest on advances, estimated, 1909,	4,000 00
	<u>\$302,777 30</u>
Over-collected in 1907 and 1908,	\$1,068 66
Interest on deposits,	20 17
	<u>1,088 83</u>
	<u>301,688 47</u>
Maintenance,	\$105,700 00
Less balance on hand,	7,107 77
	<u>98,592 23</u>
Total south metropolitan sewerage assessment,	<u>\$457,371 71</u>

METROPOLITAN SEWERAGE LOAN, NORTH SYSTEM, REQUIREMENTS.

CITIES AND TOWNS.	Interest.	Sinking Fund.	Maintenance.	Total.
Arlington, . . .	\$4,830 97	\$1,382 35	\$2,956 21	\$9,169 53
Belmont, . . .	2,794 77	799 71	1,333 19	4,927 67
Boston, . . .	32,339 53	9,253 73	27,968 07	69,561 33
Cambridge, . . .	49,048 29	14,034 83	29,837 44	92,920 56
Chelsea, . . .	11,638 24	3,330 20	11,419 09	26,387 53
Everett, . . .	10,340 67	2,958 91	8,912 11	22,211 69
Lexington, . . .	1,736 75	496 96	1,144 81	3,378 52
Malden, . . .	16,229 65	4,644 00	11,650 95	32,524 60
Medford, . . .	10,061 19	2,878 94	6,028 35	18,968 48
Melrose, . . .	7,146 64	2,044 96	4,376 35	13,567 95
Revere, . . .	5,729 29	1,639 40	3,883 65	11,252 34
Somerville, . . .	27,189 16	7,779 99	21,215 16	56,184 31
Stoneham, . . .	2,195 90	628 34	1,941 82	4,766 06
Wakefield, . . .	3,872 76	1,108 16	3,144 60	8,125 52
Winchester, . . .	5,389 92	1,542 29	2,521 47	9,453 68
Winthrop, . . .	4,311 94	1,233 83	2,159 19	7,704 96
Woburn, . . .	4,771 08	1,365 21	4,419 82	10,556 11
	\$199,626 75	\$57,121 81	\$144,912 28	\$401,660 84

METROPOLITAN SEWERAGE LOAN, NORTH SYSTEM, SINKING FUND.

BONDS ISSUED AND AMOUNT PROVIDED FOR.	Due Date.	Sinking Fund Dec. 1, 1908.	Amount of Dec. 1, 1908, Sinking Fund at Maturity of Loan Accumulations at 3 Per Cent.	Balance.	Proportion of Balance to be provided for this Year.	Sinking Fund Requirements for 1909.
\$5,330,000 (1,465,750)	Jan., 1930, Sunk.	\$905,852 25	\$1,692,899 33	\$5,102,850 67	\$85,047 51 $\frac{1}{60}$	\$46,883 49
465,000 (104,562)	Jan., 1930, Sunk.	61,686 95	115,283 47	454,278 53	13,249 79 $\frac{1}{240}$	7,304 12
250,000 (18,750)	July, 1943, Sunk.	7,332 18	20,482 83	248,267 17	3,103 34 $\frac{1}{60}$	1,144 48
50,000 (3,750)	Jan., 1943, Sunk.	1,473 56	4,055 63	49,694 37	621 18 $\frac{1}{60}$	232 52
55,000 (2,290)	July, 1943, Sunk.	2,617 11	7,419 07	49,870 93	1,038 98 $\frac{1}{48}$	383 17
300,000	Jan. 1949,	-	-	-	3,750 00 $\frac{1}{60}$	1,174 03
\$6,450,000 (1,595,102)	- Sunk.	\$978,962 05	\$1,840,140 33	\$5,904,961 67	\$106,810 80	\$57,121 81

METROPOLITAN SEWERAGE LOAN.

North System.

BONDS ISSUED.	Due Date.	Amount provided for.	Amount to be provided for.	1909.
\$5,330,000	1930	$\frac{1}{8} + \frac{9}{60}$	$\frac{1}{60} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{60}$
265,000	1930	$\frac{63}{240}$	$\frac{1}{3} + \frac{1}{8} + \frac{3}{8}$	$\frac{7}{240}$
200,000	1930	$\frac{42}{240}$	$\frac{1}{3} + \frac{1}{8} + \frac{11}{240}$	$\frac{7}{240}$
300,000	1943	$\frac{6}{80}$	$\frac{1}{6} + \frac{1}{3} + \frac{3}{8}$	$\frac{80}{80}$
55,000	1943	$\frac{2}{48}$	$\frac{1}{6} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{48}$
300,000	1949	-	$\frac{1}{8} + \frac{1}{6} + \frac{1}{3} + \frac{3}{8}$	$\frac{1}{80}$

*Proportions for Interest and Sinking Fund Requirements under Chapter
369, Acts of 1906, North System.*

CITIES AND TOWNS.	State Valuation 1907.	Ratios in Per- centages.	CITIES AND TOWNS.	State Valuation 1907.	Ratios in Per- centages.
Arlington, .	\$10,971,184	2.42	Revere, .	\$13,005,961	2.87
Belmont, .	6,327,788	1.40	Somerville, .	61,678,378	13.62
Boston, ¹ .	73,391,000	16.20	Stoneham, .	4,994,931	1.10
Cambridge, .	111,308,476	24.57	Wakefield, .	8,779,356	1.94
Chelsea, .	26,421,137	5.83	Winchester, .	12,233,803	2.70
Everett, .	23,474,573	5.18	Winthrop, .	9,776,125	2.16
Lexington, .	3,957,970 ²	0.87	Woburn, .	10,821,094	2.39
Malden, .	36,841,031	8.13			
Medford, .	22,816,242	5.04		\$452,990,075	100.00
Melrose, .	16,191,026	3.58			

¹ Charlestown and East Boston.

² 54.75 per cent. of the town valuation, derived from figures furnished by the clerk of the board of assessors.

Proportions for the Cost of Maintenance and Operation, North System.

CITIES AND TOWNS.	Population State Census 1905.	Ratios in Per- centages.	CITIES AND TOWNS.	Population State Census 1905.	Ratios in Per- centages.
Arlington, .	9,668	2.04	Revere, .	12,659	2.68
Belmont, .	4,360	0.92	Somerville, .	69,272	14.64
Boston, ¹ .	91,317	19.30	Stoneham, .	6,332	1.34
Cambridge, .	97,434	20.59	Wakefield, .	10,268	2.17
Chelsea, .	37,289	7.88	Winchester, .	8,242	1.74
Everett, .	29,111	6.15	Winthrop, .	7,034	1.49
Lexington, .	3,750 ²	0.79	Woburn, .	14,402	3.05
Malden, .	38,037	8.04			
Medford, .	19,686	4.16		473,156	100.00
Melrose, .	14,295	3.02			

¹ Charlestown and East Boston.

² Population of Lexington sewerage district certified by the clerk of the assessors.

METROPOLITAN SEWERAGE LOAN.

South System.

CITIES AND TOWNS.	Interest.	Sinking Fund.	Maintenance.	Total Assessment.
Boston, . . .	\$120,615 05	\$22,824 99	\$45,865 11	\$189,305 15
Brookline, . . .	65,556 90	12,405 88	7,621 18	85,583 96
Dedham, . . .	7,029 34	1,330 22	2,849 31	11,208 87
Hyde Park, . . .	7,964 58	1,507 20	5,067 64	14,539 42
Milton, . . .	16,291 18	3,082 92	2,514 10	21,888 20
Newton, . . .	45,735 97	8,655 00	12,846 57	67,237 54
Quincy, . . .	15,295 61	2,894 51	9,139 50	27,329 62
Waltham, . . .	14,933 58	2,826 00	8,981 75	26,741 33
Watertown, . . .	8,266 26	1,564 29	3,707 07	13,537 62
	\$301,688 47	\$57,091 01	\$98,592 23	\$457,371 71

METROPOLITAN SEWERAGE LOAN, SOUTH SYSTEM, SINKING FUND.

BONDS ISSUED AND AMOUNTS ALREADY PROVIDED FOR.	Due Date.	Sinking Fund Dec. 1, 1908.	Amount of Dec. 1, 1908, Sinking Fund at Maturity of Loan Accu- mulations at 3 Per Cent.	Balance.	Portion of Balance to be provided for this Year.	Sinking Fund Require- ments for 1909.
\$800,000 (220,000)	Jan., 1930, Sunk.	\$133,915 87	\$250,268 28	\$769,731 72 $\frac{1}{60}$	\$12,828 86 $\frac{1}{60}$	\$7,072 07
839,000 (160,808)	Mar., 1935, Sunk.	83,081 42	181,544 52	818,263 48 $\frac{1}{60}$	13,637 72 $\frac{1}{60}$	6,429 76
65,000 (11,375)	Mar., 1936, Sunk.	5,640 30	12,697 36	63,677 64 $\frac{1}{60}$	1,061 29 $\frac{1}{60}$	485 74
1,024,912 (128,114)	July, 1939, Sunk.	57,913 29	143,971 05	1,009,054 95 $\frac{1}{60}$	16,817 58 $\frac{1}{60}$	6,969 46
2,000,000 (218,750)	July, 1940, Sunk.	94,275 39	241,450 07	1,977,299 93 $\frac{1}{64}$	30,895 31 $\frac{1}{64}$	12,427 83
1,586,000 (169,928)	July, 1940, Sunk.	72,361 13	185,325 15	1,570,602 85 $\frac{1}{56}$	28,046 47 $\frac{1}{56}$	11,281 87
996,000 (74,700)	Jan., 1943, Sunk.	29,200 84	80,368 56	990,331 44 $\frac{1}{60}$	12,379 14 $\frac{1}{60}$	4,633 74
392,000 (21,777)	July, 1944, Sunk.	7,821 15	22,176 52	391,600 48 $\frac{1}{72}$	5,438 89 $\frac{1}{72}$	1,942 15
175,000 (4,861)	Jan., 1946, Sunk.	7,357 50	22,142 02	157,718 98 $\frac{1}{72}$	2,190 54 $\frac{1}{72}$	749 88
1,000,000 (15,625)	Jan., 1946, Sunk.	20,746 73	62,436 24	953,188 76 $\frac{1}{64}$	14,893 57 $\frac{1}{64}$	5,098 51
\$8,877,912 (1,025,938)	- Sunk.	\$512,313 62	\$1,202,379 77	\$8,701,470 23	\$138,189 37	\$57,091 01

METROPOLITAN SEWERAGE LOAN, SOUTH SYSTEM.

Amounts provided for and to be provided for.

DUE DATES.	Bonds issued.	Amount provided for.	Amount to be provided for.	1909.
1930,	\$800,000	$\frac{1}{8} + \frac{2}{60}$	$\frac{1}{60} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{60}$
1935,	\$839,000	$\frac{1}{8} + \frac{4}{60}$	$\frac{6}{60} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{60}$
1936,	\$65,000	$\frac{1}{8} + \frac{2}{60}$	$\frac{7}{60} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{60}$
1939,	\$1,024,912	$\frac{1}{8}$	$\frac{10}{60} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{60}$
1940,	\$2,000,000	$\frac{7}{64}$	$\frac{1}{64} + \frac{1}{6} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{64}$
1940,	1,586,000	$\frac{6}{56}$	$\frac{1}{56} + \frac{1}{6} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{56}$
	\$3,586,000			
1943,	\$996,000	$\frac{6}{80}$	$\frac{4}{80} + \frac{1}{6} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{80}$
1944,	\$392,000	$\frac{4}{72}$	$\frac{5}{72} + \frac{1}{6} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{72}$
1946,	\$175,000	$\frac{2}{72}$	$\frac{7}{72} + \frac{1}{6} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{72}$
1946,	1,000,000	$\frac{1}{64}$	$\frac{7}{64} + \frac{1}{6} + \frac{1}{3} + \frac{2}{3}$	$\frac{1}{64}$
	\$1,175,000			

Proportions for Annual Payments for Cost of Maintenance, Operation, Interest and Sinking Fund Requirements, South System.

CITIES AND TOWNS.	Population. 1900.	Proportion for Maintenance and Operation (Per Cent.).	Valuation.	Proportion for Interest and Sinking Funds (Per Cent.).
Boston,	119,921	46.52	\$188,227,950	39.98
Brookline,	19,935	7.73	102,306,308	21.73
Dedham,	7,457	2.89	10,965,988	2.33
Hyde Park,	13,244	5.14	12,415,331	2.64
Milton,	6,578	2.55	25,435,822	5.40
Newton,	33,587	13.03	71,356,289	15.16
Quincy,	23,899	9.27	23,894,528	5.07
Waltham,	23,481	9.11	23,297,415	4.95
Watertown,	9,706	3.76	12,921,271	2.74
	257,808	100.00	\$470,820,902	100.00

METROPOLITAN PARKS AND SEWERAGE LOANS.

Comparison of Assessments, 1908 and 1909.

CITIES AND TOWNS.	PARKS.		SEWER.	
	1908.	1909.	1908.	1909.
Boston, . . .	\$634,583 07	\$649,894 15	\$262,095 74	\$258,866 48
Cambridge, . .	56,080 91	57,458 52	99,768 95	92,920 56
Chelsea, . . .	15,322 92	15,769 81	28,155 30	26,387 53
Everett, . . .	16,783 75	17,345 47	23,092 42	22,211 69
Lynn,	28,088 12	28,771 46	-	-
Malden, . . .	20,746 79	21,291 49	33,189 92	32,524 60
Medford, . . .	29,816 10	29,895 94	20,019 71	18,968 48
Melrose, . . .	7,868 56	8,058 34	14,397 93	13,567 95
Newton, . . .	36,903 68	37,628 03	66,173 70	67,237 54
Quincy, . . .	14,181 85	14,582 17	27,109 15	27,329 62
Somerville, . .	37,019 34	37,376 52	59,602 25	56,184 31
Waltham, . . .	11,581 66	11,861 08	26,527 72	26,741 33
Woburn, . . .	5,666 52	5,803 19	11,943 75	10,556 11
Arlington, . .	5,129 49	5,253 27	9,507 36	9,169 53
Belmont, . . .	3,120 71	3,196 03	5,200 39	4,927 67
Braintree, . .	2,631 27	2,694 76	-	-
Brookline, . .	50,851 09	52,077 83	83,757 57	85,583 96
Canton, . . .	2,099 61	2,150 24	-	-
Cohasset, . . .	192 12	196 30	-	-
Dedham, . . .	5,768 93	5,908 08	11,069 82	11,208 87
Dover,	570 93	584 80	-	-
Hingham, . . .	2,489 47	2,549 58	-	-
Hull,	2,180 66	2,233 25	-	-
Hyde Park, . .	6,486 14	6,650 62	14,433 24	14,539 42
Lexington, . .	-	-	3,638 02	3,378 52
Milton,	18,891 97	19,505 54	21,451 65	21,888 20
Nahant,	4,808 56	4,951 24	-	-
Needham, . . .	2,129 20	2,180 52	-	-
Reading, . . .	493 25	458 97	-	-
Revere,	15,613 78	16,234 58	11,596 12	11,252 34
Saugus,	2,120 45	2,171 59	-	-
Stoneham, . . .	4,293 52	4,235 44	5,343 13	4,766 06
Swampscott, . .	5,413 06	5,543 63	-	-
Wakefield, . .	4,181 22	4,282 09	8,659 83	8,125 52
Watertown, . .	6,422 08	6,576 98	13,384 05	13,537 62
Wellesley, . .	6,679 36	6,757 49	-	-
Weston,	3,477 12	3,561 01	-	-
Westwood, . . .	1,111 94	1,138 80	-	-
Weymouth, . .	3,537 34	3,622 66	-	-
Winchester, . .	9,286 33	9,607 86	9,285 97	9,453 68
Winthrop, . . .	4,343 83	4,448 64	7,605 53	7,704 96
	\$1,088,966 70	\$1,114,507 97 ¹	\$877,009 22	\$859,032 55

¹ Includes \$19,418.56, special assessment for Wellington and Wellesley bridges.

SINKING FUND TABLE.

One dollar put in each year, with interest at the rate of 3 per cent. per annum, compounded semi-annually, amounts to the following in from 1 to 50 years, both inclusive : —

To find what amount must be put in each year to sink a given sum at maturity, divide the sum to be sunk by the figures which stand against the number of years and the result will be the amount necessary.

For instance, to find the amount necessary each year, to sink three hundred thousand dollars (\$300,000) in thirty years, divide \$300,000 by 49.19242586.

\$1 for 1 year	=	1.03022500	\$1 each year for 19 years	=	25.93195699
\$1 in 2 years	=	1.06136355	\$1 in 20 years	=	1.81401838
\$1 each year for 2 years	=	2.09158855	\$1 each year for 20 years	=	27.74597537
\$1 in 3 years	=	1.09344326	\$1 in 21 years	=	1.86884708
\$1 each year for 3 years	=	3.18503181	\$1 each year for 21 years	=	29.61482245
\$1 in 4 years	=	1.12649258	\$1 in 22 years	=	1.92533299
\$1 each year for 4 years	=	4.31152439	\$1 each year for 22 years	=	31.54015544
\$1 in 5 years	=	1.16054082	\$1 in 23 years	=	1.98352617
\$1 each year for 5 years	=	5.47206521	\$1 each year for 23 years	=	33.52368161
\$1 in 6 years	=	1.19561816	\$1 in 24 years	=	2.04347825
\$1 each year for 6 years	=	6.66768337	\$1 each year for 24 years	=	35.56715986
\$1 in 7 years	=	1.23175572	\$1 in 25 years	=	2.10524238
\$1 each year for 7 years	=	7.89943909	\$1 each year for 25 years	=	37.67240224
\$1 in 8 years	=	1.26898553	\$1 in 26 years	=	2.16887333
\$1 each year for 8 years	=	9.16842462	\$1 each year for 26 years	=	39.84127557
\$1 in 9 years	=	1.30734062	\$1 in 27 years	=	2.23442753
\$1 each year for 9 years	=	10.47576524	\$1 each year for 27 years	=	42.07570310
\$1 in 10 years	=	1.34685499	\$1 in 28 years	=	2.30196310
\$1 each year for 10 years	=	11.82262023	\$1 each year for 28 years	=	44.37766620
\$1 in 11 years	=	1.38756368	\$1 in 29 years	=	2.37153993
\$1 each year for 11 years	=	13.21018391	\$1 each year for 29 years	=	46.74920613
\$1 in 12 years	=	1.42950279	\$1 in 30 years	=	2.44321973
\$1 each year for 12 years	=	14.63968670	\$1 each year for 30 years	=	49.19242586
\$1 in 13 years	=	1.47270952	\$1 in 31 years	=	2.51706605
\$1 each year for 13 years	=	16.11239622	\$1 each year for 31 years	=	51.70949191
\$1 in 14 years	=	1.51722216	\$1 in 32 years	=	2.59314437
\$1 each year for 14 years	=	17.62961838	\$1 each year for 32 years	=	54.30263628
\$1 in 15 years	=	1.56308020	\$1 in 33 years	=	2.67152215
\$1 each year for 15 years	=	19.19269858	\$1 each year for 33 years	=	56.97415843
\$1 in 16 years	=	1.61032430	\$1 in 34 years	=	2.75226890
\$1 each year for 16 years	=	20.80302288	\$1 each year for 34 years	=	59.72642733
\$1 in 17 years	=	1.65899635	\$1 in 35 years	=	2.83545622
\$1 each year for 17 years	=	22.46201923	\$1 each year for 35 years	=	62.56188355
\$1 in 18 years	=	1.70913951	\$1 in 36 years	=	2.92115788
\$1 each year for 18 years	=	24.17115874	\$1 each year for 36 years	=	65.48304143
\$1 in 19 years	=	1.76079825	\$1 in 37 years	=	3.00944986
\$1 each year for 19 years	=	25.93195699	\$1 each year for 37 years	=	68.49249129

SINKING FUND TABLE — *Concluded.*

\$1 each year for 37 years =	68.49249129	\$1 each year for 44 years =	92.26545692
\$1 in 38 years =	3.10041047	\$1 in 45 years =	3.81894828
\$1 each year for 38 years =	71.59290176	\$1 each year for 45 years =	96.08440520
\$1 in 39 years =	3.19412036	\$1 in 46 years =	3.93437598
\$1 each year for 39 years =	74.78702212	\$1 each year for 46 years =	100.01878118
\$1 in 40 years =	3.29066264	\$1 in 47 years =	4.05329248
\$1 each year for 40 years =	78.07768476	\$1 each year for 47 years =	104.07207366
\$1 in 41 years =	3.39012290	\$1 in 48 years =	4.17580323
\$1 each year for 41 years =	81.46780766	\$1 each year for 48 years =	108.24787689
\$1 in 42 years =	3.49258936	\$1 in 49 years =	4.30201689
\$1 each year for 42 years =	84.96039702	\$1 each year for 49 years =	112.54989378
\$1 in 43 years =	3.59815287	\$1 in 50 years =	4.43204535
\$1 each year for 43 years =	88.55854989	\$1 each year for 50 years =	116.98193913
\$1 in 44 years =	3.70690703		
\$1 each year for 44 years =	92.26545692		



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